

Figure 1a

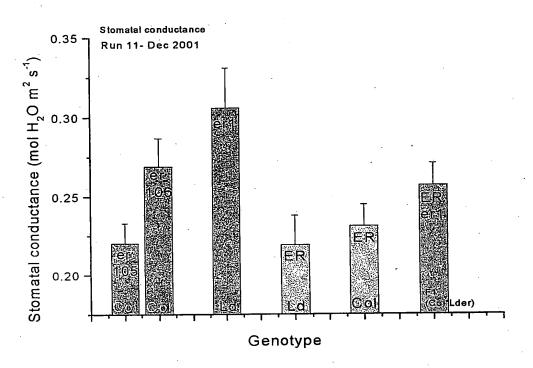


Figure 1b

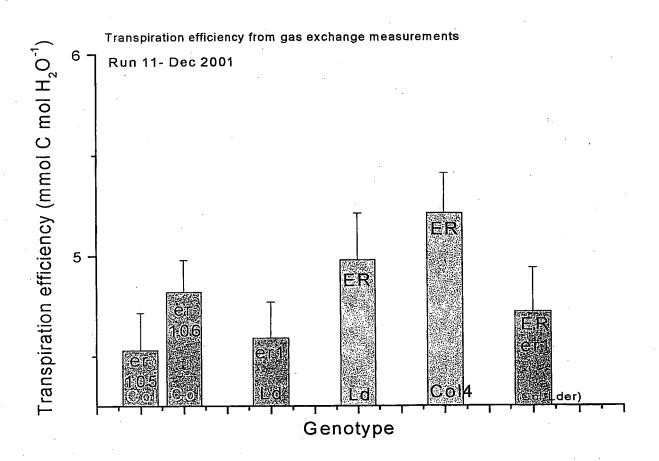


Figure 1c

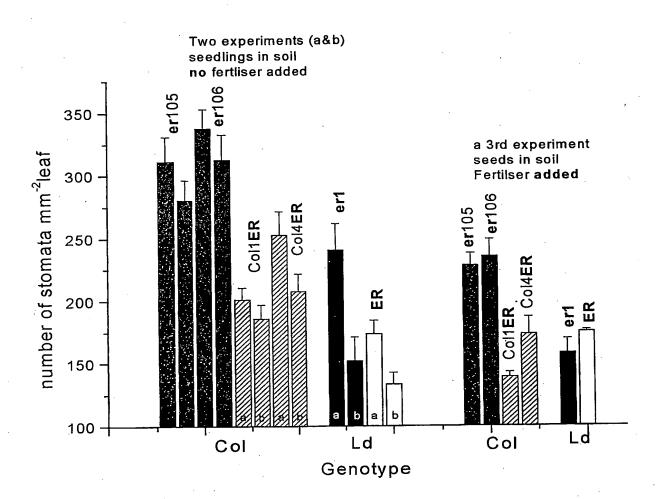


Figure 2a

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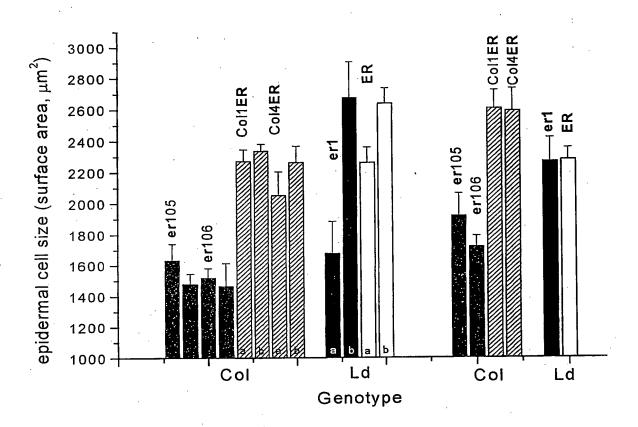


Figure 2b

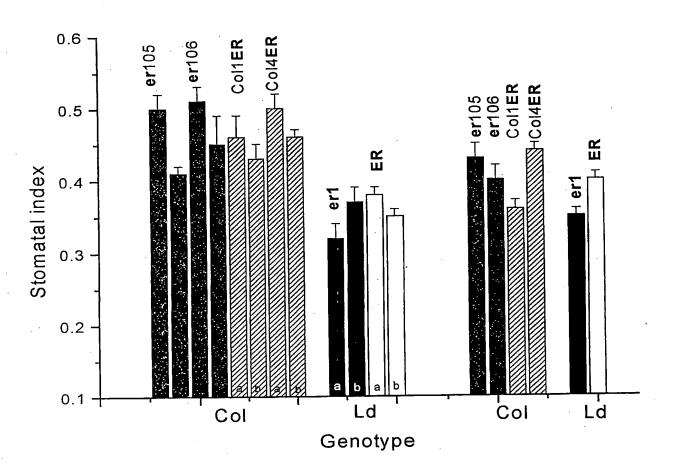


Figure 2c

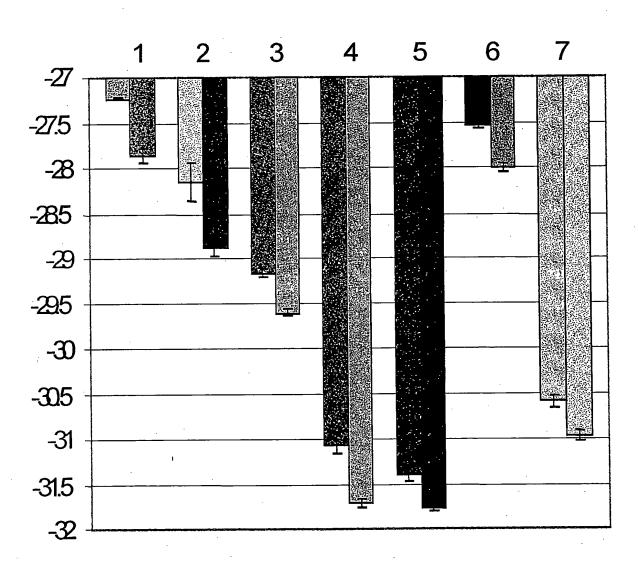


Figure 3

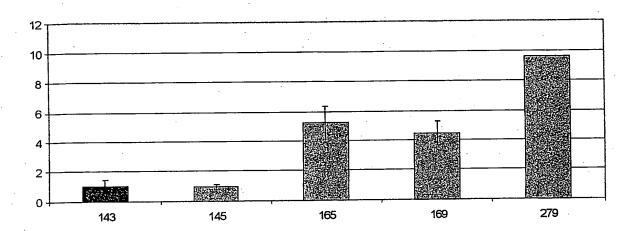


Figure 4a

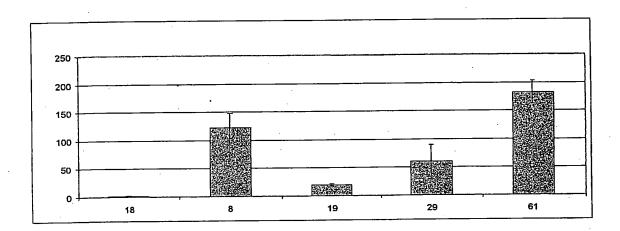


Figure 4b

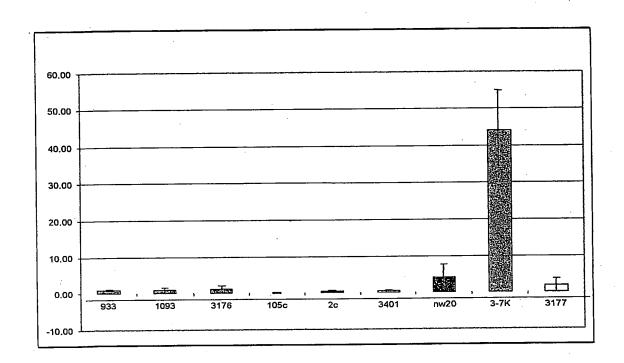


Figure 4c

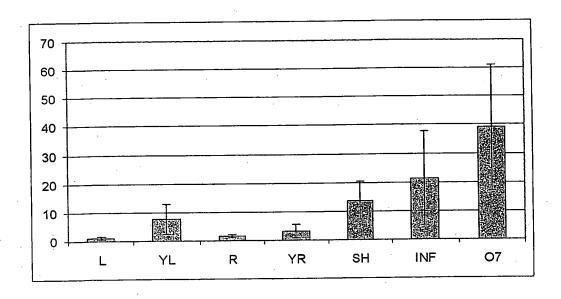


Figure 5a

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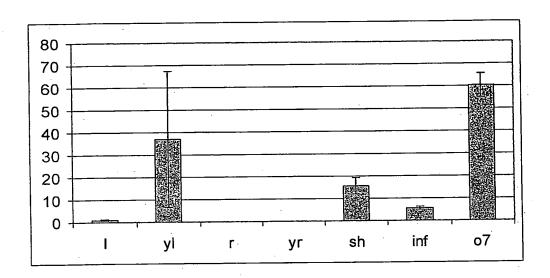


Figure 5b

Figure 6a: Transpiration efficiency at 350 and 500ppm CO₂ (mmolC mol H₂O⁻¹)

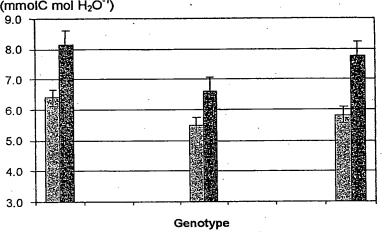


Figure 6b: CO₂ assimilation rate (µmol C m⁻²s⁻¹⁾

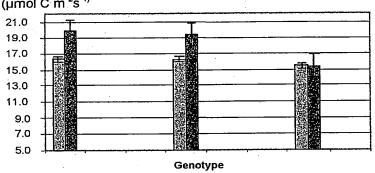
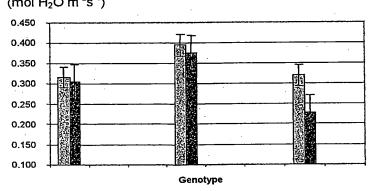


Figure 6c: Stomatal conductance (mol H₂O m⁻²s⁻¹)



T2(+ER) Ld_ER Ld -er1

Ld_ER (line 3177)

Figure 7a: Transpiration efficiency (mmol C mol H₂O⁻¹) at 350 and 500ppm CO₂

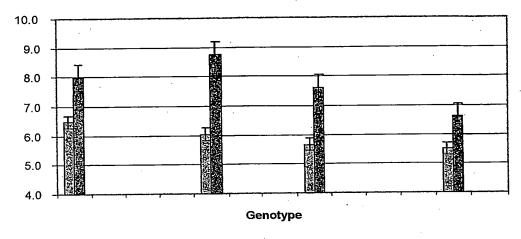


Figure 7b: CO₂ assimilation rate (µmol C m⁻²s⁻¹)

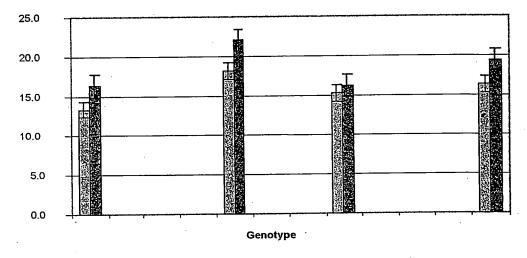
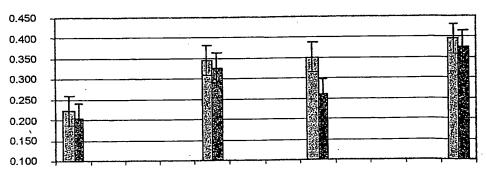


Figure 7c: Stomatal conductance (mol H₂O m⁻² s⁻¹)



F1 (Cold ER* F1 (I derl*

Ld er1

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Figure 8a

Stomatal conductance (mol $H_2O\ m^{-2}\ s^{-1}$)

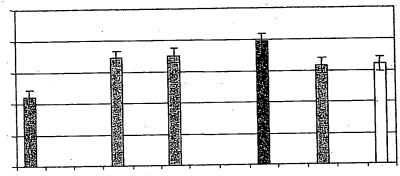


Figure 8b

Epidermal cell area (µm²)

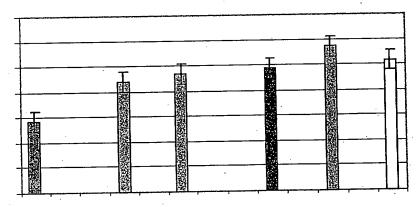


Figure 8c

Number of stomata per mm²

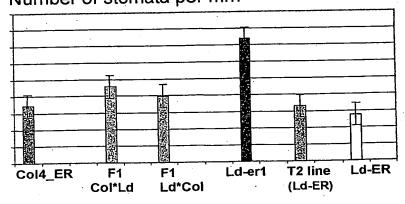
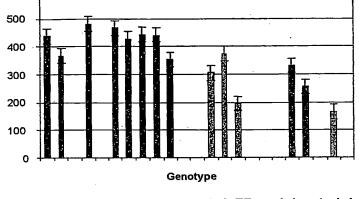


Figure 9a

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Number of stomata per mm² 600

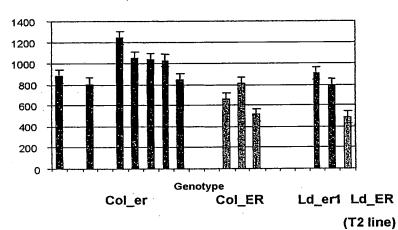


Col_er

Col_ER Ld_er1 Ld_ER (T2 line)

Figure 9b

Epidermal cell area (µm²)



Carbon isotope composition (per mil) for a range of er mutants and ER ecotypes or transgenic lines

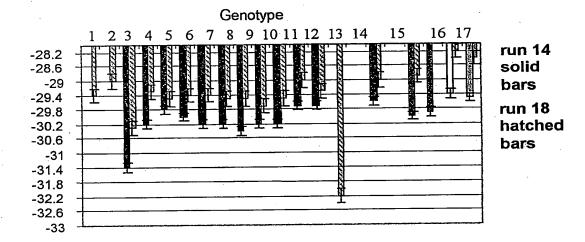


Figure 10

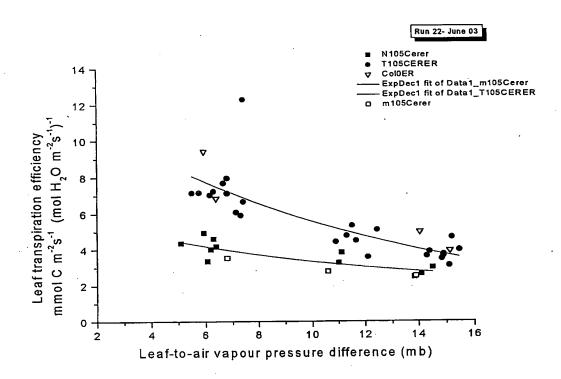


Figure 11

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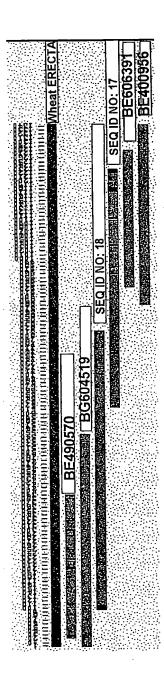


Figure 12

Figure 12

Erecta_sorghum Erecta_maize Erecta_Arabidopsis Erecta_rice Erecta_wheat

Erecta_sorghum Erecta_maine Erecta_Arabidopsis Erecta_rice Erecta_wheat

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Erecta_sorghum	21/22
Erecta maize	
Erecta_Arabidopsis Erecta_rice Erecta_wheat	MALFRDIVILGFLECLSINATVTSEEGATILE INNSTRUVRIVLYDMTTSP MAAARAPMILMMYVVVGVAVAEAASGGGGGGGEGGALHEVKAG GRAADRILVDDDG-
Erecta_sorghum Erecta_maise	-ddycswrsvlcdavttavaalklsgliilegeispavgsleslvsidlesaglsgqifds
Erecta Arabidopsis	SSDYCVWRGVSCENVTYMVVALNISDLALDGEISPAIGDLKSLLSIDLRGMRLSGQIPDE
Erecta_rice Erecta_wheat	GADH::AMGUTCDRASFAVIAINLSNLMLGGEISPAIGELKNLQFVDLKGNKLNGQIPDS
Erecta_sorghum	igdcsslrtudfsfnnlogdiffsisklikhlenlilkningligalfsflsqlfnlkildl
Erecta_maise Erecta_Arabidopsis	IGDCSSLQRLDLSYNELSGDIPFSISKLKQLEQLILKONQLIGPIPSTLSQIPNLKILDI
Erecta rice Erecta wheat	igdci slkyldlsgyllygdi ppsi sklkolælli konoligpi pstlsoi pnlkyldi
Erecta_sorghum	AQNKLTGEI PALIYMNEVLYYLDVKNSLTGV IPDI
Erecta_maise Erecta_Arabidopsis	agnklegetfrliywnevlgylglrgnnlvgniepdlcoltglatedvrnneltgetfet
Erecta_rice Brecta_wheat	AQNOLITGDIPPLITYMNEVLQYIGIRGNSLTGFLSFINOQLITGLMYFDVRGNILTGTIPES
Erecta_sorghum Erecta_maize	igactsfouldlsynretgpiefnigflovatlslognætgpipsviglægalavldls
Erecta_Arabidopsis	ignctapcyldlsyngligelfpdigplovatlslognolsgripsviglnoalavldls ignctspeildisyngisgelpynigplovatlslognaligrippviglnoalavldls
Erecta_rice Erecta_wheat	IGCTSFELDISTNOISGELFTNIGE DVATISDJANDIGELFOR IGLIGADA DEC
Erecta_sorghum Erecta_mmile	ynglsgpipsilgnltyteklyiggnkltgsippelsnnstlhylelnungltgsippel ngvirltgsippelsnnstlhylelnungltgsippe
Erecta_Arabidopsis	gnlisgsippi ugnltfteklylhsnkltgsippe ugnmsklhylelndhltghippe ene lvgpipsi ugnlsy tgklylhgnkltgvippe ugnmsklsylolndne lvgy i pabi
Erecta_rice Erecta_wheat	ENERGY FIST CONTROL I VALUE AND THE CONTROL OF THE
Erecta_sorghum	Grltgledinlannhlegpipinlssovninstnaygnklagtiprslarlesmyylkil Grltgledinlandhlegpipinlssovninsenaygnklagtiprslarlesmyylni
Erecta_maize Erecta_Arabidopsis	GKLTDLFDLNVANNDLEGPI PEHLSSCTNLNSLNVH5NKFSGTI PRAFQKLESHTYLNL
Erecta_rice Erecta_wheat	GKLEELFEINLANNNIQGFIPANISSCTAINUNVNGNKINGSIPAGFORLESLTYINL PNVVNGNRINGSIPAGFORLESLTNIANL ;*.:*:!!.**
Erecta_sorghum	Snf isgsipielsrinnldtldlschmatgpipssigslehllrlnlskaglvgfipae
Erecta_maise Erecta_Arabidopsis	snf isgsipie larinnldtldlschmtgpipssignlehllrinlskndlvgfipae sinnikgpipve lsrignldtldlsnnkingiipsslgdlehllminlsrnhitgvvpgd
Erecta_rice	sinfkænipse leht inldtlolsynepsepvpatiedlehlleinlsknhlogpvpae sinfkæhipse leht inldtlolsyne lsepvpatiedlehllqinlsknhlægsvpae
Erecta_wheat	** ! * ss se'in seasunes a ! * isliis saana'issala ! a !a'!
Erecta_sorghum Erecta_maise	Gnlrsvmeidlsynhlgglipgelghlonimll
Erecta_Arabidopsis	Gnirs dietolskindisgpipeelnquontillrlennnltgav—gslancislt———v Gnirsvoviimskanlsgslpeelgounloslilkannlvgeipaolancpslanlap
Erecta_rice Erecta_wheat	Gnirsigvidlsnammsgyleeligolonidslimni lwgbipaqlanciblni
Erecta_sorghum	NVSYNNLAGVVPALNNFTRFSPDSFLGNPGLCGYWLGSSCRST
Erecta_maize Erecta_Arabidopsis	nvsynnlagav Ptonne treshdse lgnpglogywlgsscrst nvshnnlygdi Pkonne srespdse ignpglogswlnspchds
Erecta_rice Erecta_wheat	BEVIQOTIMO POCKELLE IPHONILLIS DONQYINING SI LGNELLAWYOODSSOGIS NLSHANISGHYFF ARMISKFPGE
Erecta_soidpm	hhekppiskaaiigvavgglvillmilvavcrphrppafkdvtvskevrnappklvilh hrdkppiskaaiigvavgglvillmilvavcrphhppafkdatvskevsngppklvilh
Erecta_maize Erecta_Arabidopsis	rtvrvsisraailgiaigglvillmvliaacrphnpppfldgsldkpvtystpklvilh
Erecta_rice Erecta_wheat	HGORVNISKRAJACIILGFIILLCVLLLAIYKYNOROPLVKGS-DKFVQ-GPFKLVVLQ HGSKVNT-RTAIACIISGFVILLCVLLLAIYKYKRPQFPIKAS-DKFQQ-GPFKLVVLLQ ! ! !!* ! !!! !!*! !!! !! ! ! ! . !
Erecta_sorghum	nmalhvyddinrmtenlseky i i gygasstvykcylknckpvatkklyahy poslkefe nmalhvyfddinrmtenlseky i i gygasstvykcylknckpvatkklyahy loslkreb
Erecta_maize Erecta_Arabidopsis	inmalhvyedimrmtenlsekyiighgasstvykcvlknckpvaikrlyshnpqshkqfe
Erecta_rice Erecta_wheat	DMA.HHYYEDIMRLYENI.SEKYIIGYGASSTVYKCELKSGKATAVKRIJSGYNKSLREFE DMA.HHYDDIMRLTENLSEKYIIGYGASSTVYKCYLKSGKATAVKR.—QYNKGARIFE :**:*********************************
Erecta_sorghum	e le tvgsirhrnivslogy slspygnllf y dymecgs lwdv lhegsskicklowe trle
Erecta_maize Erecta_Arabidopsis	e le tvgsikhrnlvslogyslspygnllfyaymesgslwdvlhegsskvakldwvtrlf e lemlssikhrnlvslogayslshlgsllfydylengslwdlih–gptkkrtldwdtrlf
Erecta_rice	eletigstrhdnivslagfslspagnlifydymengsladlia-gpskkvklandtrle eletvgstrhdnivslagfslspagnlifydymengsladlia-gpskkvklandtrle
Erecta_wheat	Algaacgiaylhhocspriihrdykskniildekhybahlidegiaksicvskthistyk
Erecta_sorghum Erecta_maize	algaacglaylhidespri ihrdvkskni lldkdyeahlfdfgiakslevskthtsty
Erecta_Arabidopsis Erecta_rice	aygaaqslaylihidcspri ihrdvkssni lldkdlearltdfgiakslcvskshtstyv avgaaqslaylihidcnpri ihrdvkssni lldenfeahlsdfgiakcvpsakshastyv
Erocta_wheat	AVGAQQLAYLIGIDCNPRIVIRDVKSSNILLDEHFEAHLSDFGIAK-VPAAKTHASTY
Erecta_sorghum Erecta_maize	gtigyidfeyartsrineksdvyrlahcsagaadmoeasgorilsktasnev gtigyidfeyartsrineksdvysygivllelltgkkevinechlahlilsktasnevi
Erecta Arabidopsis	GTIGYIDPEYARTSRLTEKSDVYSYGIVLLELLTRRKAVDDESNLHHLLHSKTGNNEVI
Erecta_rice Erecta_wheat	GTIGYIDPEYARTSRINEKSDVYSFGIVLLELLTGKKAVLNESNLHQLILSKADDNTV GTIGYIDPEYARTSQLNEKSDVYS
_	

Figure 13

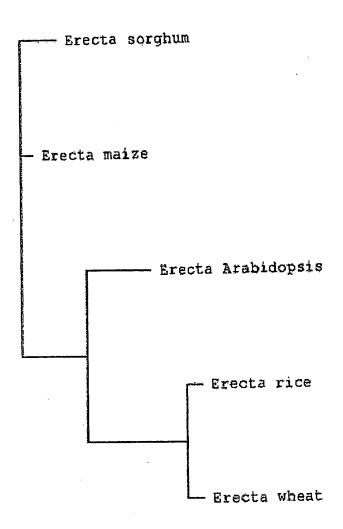


FIGURE 14

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